

JUNE 2014

KICKAPOO ENVIRONMENTAL OFFICE

The Green Clan

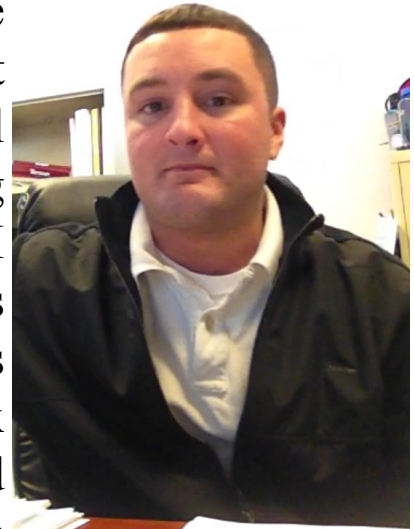


An Introduction To Our Newest Team Member

Moud Safadi, Environmental Specialist, 785-486-2601 x- 1



Hi, my name is Moud Safadi and I'd like to introduce myself as the new Environmental Specialist with the Kickapoo Environmental Office (KEO). I began working for the KEO in May of 2014. I was most recently employed as the Tribal Response/Brownfields Coordinator for the Sac and Fox Nation of Missouri in Kansas and Nebraska before coming to the Kickapoo Environmental Office.



I grew up in Lawrence, Kansas where I received my Bachelor's degree in Environmental Science/Studies from the University of Kansas. As the Environmental Specialist, I will work to maintain and monitor the streams, ponds, and groundwater wells in order to sustain and protect the environment. I am extremely excited to begin this new chapter in my life and look forward to meeting many of you through future environmental projects. I can be reached at (785) 486-2601 extension 1 or by email at Moud.Safadi@ktik-nsn.gov

Cedar Tree Revetment Project Completed on Plum Creek

Jim Reitz, Lewis Messner, Moud Safadi, Environmental Specialists

With the joint effort of the Kansas Forest Service, the Kickapoo Environmental Office and the Kickapoo Roads Department, a 200 foot section of a stream bank on Plum Creek was fitted with a cedar tree revetment on the 20th of May. So what exactly is a revetment? In terms of stream bank restoration and protection, revetments are structures placed in such a way as to stop or reduce the erosion of the stream bank. The structures can be natural or manmade.



The natural material used for this project was pasture cut, native eastern red cedars averaging 15 to 20 feet tall. Whole trees were cut and anchored horizontally at the base of the stream bank. They are placed with the trunk of the tree facing upstream and the crown of the tree downstream. The trees are over lapped and secured

tightly together against the base of the stream bank using steel cable and duckbill anchors.

The anchors are driven into the ground approximately 5 to 6 feet using a gas powered jack hammer. The cable attached to the anchor is secured tightly to the trees to hold them in place.



Cedar Tree Revetment Project Completed on Plum Creek (Continued from page 2)



The dense foliage and branches of the eastern red cedar trees will slow down the current of



the stream and deflect it away from the bank. Over time, sediment is trapped in the foliage of the horizontal trees and will allow vegetation to be established, thus protecting and restoring the stream bank. The trunks and branches of the red cedars will last for many years, further protecting the bank.

The adjacent picture is taken a day after a rainfall of 1.6 inches and the cedar trees are doing their job to reduce the energy of the high flow water in eroding the stream banks and depositing the sediments.

Special thanks to William Beck, Kerry Wedel, Galgamuna Pabodha, Barahona Merilin, Stiffarm Ashley, Sonny Fee, and Scott Weir for volunteering. Pictures were taken by Jim Reitz, Lewis Messner, Heather Wahwahsuck, and Moud Safadi.



**KICKAPOO ENVIRONMENTAL
OFFICE**

Tej-Director
Scott-Air Quality
Sonny-Solid Waste
Jim-Environmental Specialist
Lewis-Environmental Specialist
Moud-Environmental Specialist
Mike-Brownfield
Heather-Admin Assistant

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ktik-nsn.gov/kickapooenvironmentalprotection.htm

Working Together for a Better Community!

UP COMING EVENTS!

**Summer Community Clean UP
including Hazardous Wastes**

Monday, July 14 to Friday, July 18